# The evolution of hindlimb tendons and muscles on the l

Comparative Biochemistry and Physiology Part A, Molecular &
133, 1051-1086
DOI: 10.1016/s1095-6433(02)00158-7

Citation Report

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The evolution of tendon â€" morphology and material properties. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2002, 133, 1159-1170. | 0.8 | 71 |
| 2 | Tendonâ€"bridging the gap. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2002, 133, 905-909. | 0.8 | 47 |
| 3 | Biomechanical modeling and sensitivity analysis of bipedal running ability. II. Extinct taxa. Journal of Morphology, 2004, 262, 441-461. | 0.6 | 92 |
| 4 | Biomechanical modeling and sensitivity analysis of bipedal running ability. I. Extant taxa. Journal of Morphology, 2004, 262, 421-440. | 0.6 | 111 |
| 5 | Analysis of hindlimb muscle moment arms in Tyrannosaurus rex using a three-dimensional musculoskeletal computer model: implications for stance, gait, and speed. Paleobiology, 2005, 31, 676-701. | 1.3 | 23 |
| 6 | Analysis of hindlimb muscle moment arms in Tyrannosaurus rex using a three-dimensional musculoskeletal computer model: implications for stance, gait, and speed. Paleobiology, 2005, 31, 676. | 1.3 | 163 |
| 7 | PHYLOGENY OF NEORNITHES. Bulletin of Carnegie Museum of Natural History, 2006, 37, 1-544. | 1.0 | 162 |
| 8 | The evolution ofÂlocomotion inÂarchosaurs. Comptes Rendus - Palevol, 2006, 5, 519-530. | 0.1 | 73 |
| 9 | Morphological analysis of the hindlimb in apes and humans. II. Moment arms. Journal of Anatomy, 2006, 208, 725-742. | 0.9 | 64 |
| 10 | Oldest camarasauromorph sauropod (Dinosauria) discovered in the Middle Jurassic (Bajocian) of the Khadir Island, Kachchh, western India. Palaontologische Zeitschrift, 2006, 80, 34-51. | 0.8 | 13 |
| 11 | Quantitative microanatomy of jaw muscle attachment in extant diapsids. Journal of Morphology, 2006, 267, 954-967. | 0.6 | 28 |
| 12 | Higher-order phylogeny of modern birds (Theropoda, Aves: Neornithes) based on comparative anatomy. II. Analysis and discussion. Zoological Journal of the Linnean Society, 2007, 149, 1-95. | 1.0 | 440 |
| 13 | The Anatomical Foundation for Multidisciplinary Studies of Animal Limb Function: Examples from Dinosaur and Elephant Limb Imaging Studies. , 2008, , 23-38. | | 30 |
| 14 | Mosaicism, Modules, and the Evolution of Birds: Results from a Bayesian Approach to the Study of Morphological Evolution Using Discrete Character Data. Systematic Biology, 2008, 57, 185-201. | 2.7 | 103 |
| 15 | A new crocodylomorph specimen from the Araripe Basin (Crato Member, Santana Formation), northeastern Brazil. Palaontologische Zeitschrift, 2009, 83, 323-331. | 0.8 | 16 |
| 16 | The evolutionary continuum of limb function from early theropods to birds. Die Naturwissenschaften, 2009, 96, 423-448. | 0.6 | 124 |
| 17 | The role of the calcaneal â€˜heelâ€™ as a propulsive lever in basal archosaurs and extant monitor lizards. Journal of Vertebrate Paleontology, 2010, 30, 1422-1432. | 0.4 | 19 |
| 18 | Appendicular skeleton ofSimosuchus clarki(Crocodyliformes: Notosuchia) from the Late Cretaceous of Madagascar. Journal of Vertebrate Paleontology, 2010, 30, 122-153. | 0.4 | 36 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | The Appendicular Skeleton ofNeuquensaurus, a Late Cretaceous Saltasaurine Sauropod from Patagonia, Argentina. Acta Palaeontologica Polonica, 2010, 55, 399-426. | 0.4 | 101 |
| 20 | Notes on the hindlimb myology and syndesmology of the Mesozoic toothed birdHesperornis regalis(Aves: Hesperornithiformes). Journal of Systematic Palaeontology, 2011, 9, 65-84. | 0.6 | 22 |
| 21 | Pelvic and hind limb musculature of Staurikosaurus pricei (Dinosauria: Saurischia). Anais Da Academia Brasileira De Ciencias, 2011, 83, 73-98. | 0.3 | 18 |
| 22 | A new, three-dimensionally preserved enantiornithine bird (Aves: Ornithothoraces) from Gansu Province, north-western China. Zoological Journal of the Linnean Society, 2011, 162, 201-219. | 1.0 | 40 |
| 23 | Baurusuchid crocodyliforms as theropod mimics: clues from the skull and appendicular morphology ofStratiotosuchus maxhechti(Upper Cretaceous of Brazil). Zoological Journal of the Linnean Society, 2011, 163, S37-S56. | 1.0 | 73 |
| 24 | Pelvic and hindlimb myology of the basal archosaur Poposaurus gracilis (archosauria:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf | 0.6 | 44 |
| 26 | Postnatal ontogeny of the locomotor skeleton of a cursorial bird: greater rhea. Journal of Zoology, 2012, 286, 303-311. | 0.8 | 13 |
| 27 | From extant to extinct: locomotor ontogeny and the evolution of avian flight. Trends in Ecology and Evolution, 2012, 27, 296-305. | 4.2 | 103 |
| 28 | Postcranial anatomy of Sebecus icaeorhinus (Crocodyliformes, Sebecidae) from the Eocene of Patagonia. Journal of Vertebrate Paleontology, 2012, 32, 328-354. | 0.4 | 88 |
| 29 | Investigating tendon mineralisation in the avian hindlimb: a model for tendon ageing, injury and disease. Journal of Anatomy, 2013, 223, 262-277. | 0.9 | 12 |
| 31 | The hooked element in the pes of turtles (<scp>T</scp>estudines): a global approach to exploring primary and secondary homology. Journal of Anatomy, 2013, 223, 421-441. | 0.9 | 18 |
| 32 | New, puzzling insights from comparative myological studies on the old and unsolved forelimb/hindlimb enigma. Biological Reviews, 2013, 88, 196-214. | 4.7 | 52 |
| 33 | Getting a grip on tetrapod grasping: form, function, and evolution. Biological Reviews, 2013, 88, 380-405. | 4.7 | 143 |
| 34 | Histological evidence for muscle insertion in extant amniote femora: implications for muscle reconstruction in fossils. Journal of Anatomy, 2013, 222, 419-436. | 0.9 | 39 |
| 35 | Linking the evolution of body shape and locomotor biomechanics in bird-line archosaurs. Nature, 2013, 497, 104-107. | 13.7 | 146 |
| 37 | Locomotion in ornithischian dinosaurs: an assessment using threeâ€dimensional computational modelling. Biological Reviews, 2014, 89, 588-617. | 4.7 | 47 |
| 38 | A confuciusornithiform (Aves, Pygostylia)-like tarsometatarsus from the Early Cretaceous of Siberia and a discussion of the evolution of avian hind limb musculature. Journal of Vertebrate Paleontology, 2014, 34, 647-656. | 0.4 | 23 |
| 39 | Skeletal variation and ontogeny of the Late Triassic DinosauriformSilesaurus opolensis. Journal of Vertebrate Paleontology, 2014, 34, 1383-1393. | 0.4 | 47 |

| # | Article | IF | Citations |
|---|---|---|---|
| 40 | Convergences and Trends in the Evolution of the Archosaur Pelvis. Paleobiology, 2014, 40, 608-624. | 1.3 | 7 |
| 41 | The developmental origin of zygodactyl feet and its possible loss in the evolution of Passeriformes. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140765. | 1.2 | 34 |
| 42 | A biomechanical approach on the optimal stance ofAnhanguera piscator(Pterodactyloidea) and its implications for pterosaur gait on land. Historical Biology, 2014, 26, 582-590. | 0.7 | 11 |
| 43 | The influence of caudofemoral musculature on the titanosaurian (Saurischia: Sauropoda) tail skeleton: morphological and phylogenetic implications. Historical Biology, 2014, 26, 454-471. | 0.7 | 25 |
| 44 | Myological reconstruction of the pelvic girdle of Anhanguera piscator (Pterosauria:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 587 Td (Pteroc 2014, 17, 11-22. | 0.2 | 6 |
| 45 | Ontogenetic Scaling of the Hindlimb Muscles of the Greater Rhea (<scp>R</scp>hea americana). Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia, 2015, 44, 452-459. | 0.3 | 11 |
| 46 | Mechanical analysis of avian feet: multiarticular muscles in grasping and perching. Royal Society Open Science, 2015, 2, 140350. | 1.1 | 45 |
| 47 | Gravisaurian sauropod remains from the marine late Early Jurassic (Lower Toarcian) of North-Eastern Germany. Geobios, 2015, 48, 271-279. | 0.7 | 13 |
| 48 | Skeletal plasticity in response to embryonic muscular activity underlies the development and evolution of the perching digit of birds. Scientific Reports, 2015, 5, 9840. | 1.6 | 24 |
| 49 | The postcranial anatomy ofYacarerani boliviensisand the phylogenetic significance of the notosuchian postcranial skeleton. Journal of Vertebrate Paleontology, 2015, 35, e995187. | 0.4 | 42 |
| 50 | Wing and hindlimb myology of vultures and raptors (<scp>A</scp>ccipitriformes) in relation to locomotion and foraging. Acta Zoologica, 2015, 96, 283-295. | 0.6 | 13 |
| 51 | New heterodontosaurid remains from the CaÃ±adÃ³n Asfalto Formation: cursoriality and the functional importance of the pes in small heterodontosaurids. Journal of Paleontology, 2016, 90, 555-577. | 0.5 | 10 |
| 52 | A historical specimen of enantiornithine bird from the Early Cretaceous of Mongolia representing a new taxon with a specialized neck morphology. Journal of Systematic Palaeontology, 2016, 14, 319-338. | 0.6 | 6 |
| 53 | Evidence from surface microscopy for recognition of fleshy and tendinous muscle insertion in extant vertebrate femora: implications for muscle reconstruction in fossils. Historical Biology, 2016, 28, 842-848. | 0.7 | 14 |
| 54 | A re-evaluation of the historical â€˜dinosaurâ€™ remains from the Middle-Upper Triassic of Poland. Historical Biology, 2017, 29, 442-472. | 0.7 | 8 |
| 55 | How common are cranial sesamoids among squamates?. Journal of Morphology, 2017, 278, 1400-1411. | 0.6 | 18 |
| 56 | Cellular preservation of musculoskeletal specializations in the Cretaceous bird Confuciusornis. Nature Communications, 2017, 8, 14779. | 5.8 | 18 |
| 57 | Muscle moment arm analyses applied to vertebrate paleontology: a case study usingStegosaurus stenopsMarsh, 1887. Journal of Vertebrate Paleontology, 2017, 37, e1361432. | 0.4 | 24 |

| # | Article | IF | Citations |
|---|---|---|---|
| 58 | The Origin and Evolutionary Consequences of Skeletal Traits Shaped by Embryonic Muscular Activity, from Basal Theropods to Modern Birds. Integrative and Comparative Biology, 2017, 57, 1281-1292. | 0.9 | 8 |
| 59 | Sacral anatomy of the phytosaur Smilosuchus adamanensis, with implications for pelvic girdle evolution among Archosauriformes. Journal of Anatomy, 2017, 231, 886-905. | 0.9 | 16 |
| 60 | Common occurrence of Sharpeyâ€™s fibres in amphibian phalanges. Zoomorphology, 2018, 137, 329-336. | 0.4 | 5 |
| 61 | Developmental patterns and variation among early theropods. Journal of Anatomy, 2018, 232, 604-640. | 0.9 | 46 |
| 62 | Tendinous framework of anurans reveals an all-purpose morphology. Zoology, 2018, 126, 172-184. | 0.6 | 9 |
| 63 | Comparative hindlimb myology of footâ€propelled swimming birds. Journal of Anatomy, 2018, 232, 105-123. | 0.9 | 28 |
| 64 | Cancellous bone and theropod dinosaur locomotion. Part Iâ€”an examination of cancellous bone architecture in the hindlimb bones of theropods. PeerJ, 2018, 6, e5778. | 0.9 | 32 |
| 65 | Morphology and Evolution of Sesamoid Elements in Bats (Mammalia: Chiroptera). American Museum Novitates, 2018, 3905, 1-40. | 0.2 | 14 |
| 66 | Sesamoids in tetrapods: the origin of new skeletal morphologies. Biological Reviews, 2019, 94, 2011-2032. | 4.7 | 20 |
| 67 | Relating neuromuscular control to functional anatomy of limb muscles in extant archosaurs. Journal of Morphology, 2019, 280, 666-680. | 0.6 | 17 |
| 68 | A new species of bristlebird (Passeriformes, Dasyornithidae) from the early Miocene of Australia. Journal of Vertebrate Paleontology, 2019, 39, e1575838. | 0.4 | 3 |
| 69 | Evolution of Hindlimb Muscle Anatomy Across the Tetrapod Waterâ€toâ€Land Transition, Including Comparisons With Forelimb Anatomy. Anatomical Record, 2020, 303, 218-234. | 0.8 | 20 |
| 70 | The pelvic and hindlimb myology of the basal titanosaur Epachthosaurus sciuttoi (Sauropoda:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 0.7 | 5 |
| 71 | New material reveals the pelvic morphology of Caenagnathidae (Theropoda, Oviraptorosauria). Cretaceous Research, 2020, 114, 104521. | 0.6 | 7 |
| 72 | The homology, form, and function of the microraptorine lateral pubic tubercle. Journal of Vertebrate Paleontology, 2020, 40, e1755866. | 0.4 | 5 |
| 73 | The Tail of the Late Jurassic Sauropod Giraffatitan brancai: Digital Reconstruction of Its Epaxial and Hypaxial Musculature, and Implications for Tail Biomechanics. Frontiers in Earth Science, 2020, 8, . | 0.8 | 17 |
| 74 | Testing the propulsive role of m. peroneus longus during quadrupedal walking in Varanus exanthematicus. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2020, 333, 325-332. | 0.9 | 5 |
| 75 | How to build a dinosaur: Musculoskeletal modeling and simulation of locomotor biomechanics in extinct animals. Paleobiology, 2021, 47, 1-38. | 1.3 | 66 |

| # | Article | IF | Citations |
|---|---|---|---|
| 76 | Homology and osteological correlates of pedal muscles among extant sauropsids. Journal of Anatomy, 2021, 238, 365-399. | 0.9 | 15 |
| 77 | Hind limb muscle reconstruction in the incipiently opisthopubic large therizinosaur Nothronychus (Theropoda; Maniraptora). Journal of Anatomy, 2021, 238, 1404-1424. | 0.9 | 5 |
| 78 | The long and the short of tails. Developmental Dynamics, 2021, 250, 1229-1235. | 0.8 | 6 |
| 79 | Maniraptoran pelvic musculature highlights evolutionary patterns in theropod locomotion on the line to birds. PeerJ, 2021, 9, e10855. | 0.9 | 16 |
| 80 | Musculoskeletal modelling of the Nile crocodile (Crocodylus niloticus) hindlimb: Effects of limb posture on leverage during terrestrial locomotion. Journal of Anatomy, 2021, 239, 424-444. | 0.9 | 22 |
| 81 | The evolution of pelvic limb muscle moment arms in bird-line archosaurs. Science Advances, 2021, 7, . | 4.7 | 31 |
| 82 | Osteology of Aerosteon riocoloradensis (Sereno et al. 2008) a large megaraptoran (Dinosauria:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 50 | 0.7 | 5 |
| 83 | The locomotor musculature and posture of the early dinosauriform Silesaurus opolensis provides a new look into the evolution of Dinosauromorpha. Journal of Anatomy, 2020, 236, 1044-1100. | 0.9 | 13 |
| 84 | A Basal Lithostrotian Titanosaur (Dinosauria: Sauropoda) with a Complete Skull: Implications for the Evolution and Paleobiology of Titanosauria. PLoS ONE, 2016, 11, e0151661. | 1.1 | 74 |
| 85 | Megaraptorid (Theropoda: Tetanurae) Partial Skeletons from the Upper Cretaceous Bajo Barreal Formation of Central Patagonia, Argentina: Implications for the Evolution of Large Body Size in Gondwanan MegaraptoranS. Annals of Carnegie Museum, 2020, 86, . | 0.1 | 16 |
| 86 | Musculoskeletal modelling of an ostrich (Struthio camelus) pelvic limb: influence of limb orientation on muscular capacity during locomotion. PeerJ, 2015, 3, e1001. | 0.9 | 111 |
| 87 | Postcranial anatomy ofPissarrachampsa sera(Crocodyliformes, Baurusuchidae) from the Late Cretaceous of Brazil: insights on lifestyle and phylogenetic significance. PeerJ, 2016, 4, e2075. | 0.9 | 50 |
| 88 | Evolution of the patellar sesamoid bone in mammals. PeerJ, 2017, 5, e3103. | 0.9 | 39 |
| 89 | Why sauropods had long necks; and why giraffes have short necks. PeerJ, 2013, 1, e36. | 0.9 | 62 |
| 90 | Cancellous bone and theropod dinosaur locomotion. Part IIIâ€”Inferring posture and locomotor biomechanics in extinct theropods, and its evolution on the line to birds. PeerJ, 2018, 6, e5777. | 0.9 | 33 |
| 91 | Cancellous bone and theropod dinosaur locomotion. Part IIâ€”a new approach to inferring posture and locomotor biomechanics in extinct tetrapod vertebrates. PeerJ, 2018, 6, e5779. | 0.9 | 23 |
| 92 | Three-dimensional anatomy of the ostrich (Struthio camelus) knee joint. PeerJ, 2014, 2, e706. | 0.9 | 21 |
| 93 | Structure, ontogeny and evolution of the patellar tendon in emus (Dromaius novaehollandiae) and other palaeognath birds. PeerJ, 2014, 2, e711. | 0.9 | 24 |

| # | Article | IF | Citations |
|---|---|---|---|
| 94 | Testing the function of dromaeosaurid (Dinosauria, Theropoda) â€˜sickle clawsâ€™ through musculoskeletal modelling and optimization. PeerJ, 2019, 7, e7577. | 0.9 | 7 |
| 95 | A new ornithuromorph bird from the Lower Cretaceous of South America. Journal of Vertebrate Paleontology, 2021, 41, . | 0.4 | 4 |
| 97 | Walking with early dinosaurs: appendicular myology of the Late Triassic sauropodomorph Thecodontosaurus antiquus. Royal Society Open Science, 2022, 9, 211356. | 1.1 | 7 |
| 98 | Three-dimensional polygonal muscle modelling and line of action estimation in living and extinct taxa. Scientific Reports, 2022, 12, 3358. | 1.6 | 11 |
| 104 | The developing bird pelvis passes through ancestral dinosaurian conditions. Nature, 2022, 608, 346-352. | 13.7 | 7 |
| 105 | Anatomically grounded estimation of hindlimb muscle sizes in Archosauria. Journal of Anatomy, 2023, 242, 289-311. | 0.9 | 4 |
| 106 | Forty new specimens of Ichthyornis provide unprecedented insight into the postcranial morphology of crownward stem group birds. PeerJ, 0, 10, e13919. | 0.9 | 13 |
| 107 | Quantitative biomechanical assessment of locomotor capabilities of the stem archosaurEuparkeria capensis. Royal Society Open Science, 2023, 10, . | 1.1 | 5 |
| 108 | Convergent Evolution of Manual and Pedal Grasping Capabilities in Tetrapods. Fascinating Life Sciences, 2023, , 323-389. | 0.5 | 1 |
| 109 | Muscle architecture of the hindlimb of <scp> Tyto furcata </scp> (Aves Strigiformes): Highlights in owl morphology. Anatomical Record, 0, , . | 0.8 | 0 |
| 110 | Investigating the quadrupedal abilities of Scutellosaurus lawleri and its implications for locomotor behavior evolution among dinosaurs. Anatomical Record, 2023, 306, 2514-2536. | 0.8 | 1 |
| 111 | Early diversification of avian limb morphology and the role of modularity in the locomotor evolution of crown birds. Evolution; International Journal of Organic Evolution, 2023, 77, 342-354. | 1.1 | 4 |